



## Material Safety Data Sheet

### ACCLAIM® EXTRA HERBICIDE

MSDS Number: 102000005372

MSDS Version 2.0

Revision Date: 01/17/2006

#### SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

<b>Product Name</b>	ACCLAIM® EXTRA HERBICIDE
<b>MSDS Number</b>	102000005372
<b>Chemical Family</b>	benzoxazole
<b>EPA Registration No.</b>	432-950

Bayer Environmental Science  
2 T.W. Alexander Drive  
Research Triangle PK, NC 27709  
USA

For MEDICAL, TRANSPORTATION or other EMERGENCY call: 1-800-334-7577 (24 hours/day)  
For Product Information call: 1-800-331-2867

#### SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous Component Name</u>	<u>CAS-No.</u>	<u>Average % by Weight</u>
Fenoxaprop-P-ethyl	71283-80-2	6.59
Naphthalene	91-20-3	5.66

#### SECTION 3. HAZARDS IDENTIFICATION

*NOTE: Please refer to Section 11 for detailed toxicological information.*

<b><u>Emergency Overview</u></b>	Caution! Harmful if swallowed. Moderate eye irritation. Avoid contact with skin, eyes and clothing.
<b>Physical State</b>	liquid
<b>Appearance</b>	white to beige
<b>Routes of Exposure</b>	Ingestion, Inhalation, Skin contact, Skin Absorption
<b>Immediate Effects</b>	
<b>Eye</b>	Moderate eye irritation. Do not get in eyes.
<b>Skin</b>	May cause slight irritation. Avoid contact with skin and clothing.
<b>Ingestion</b>	Small amounts of the solvent in this product aspirated into the respiratory system during ingestion or vomiting may cause mild to severe pulmonary injury.
<b>Inhalation</b>	High vapor/aerosol concentrations (greater than approximately 1,000 ppm) are irritating to the eyes and the respiratory tract, may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness, and other central nervous system effects.



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**Chronic or Delayed Long-Term** This product contains ingredients that are considered to be probable or suspected human carcinogens (see Section 11 - Chronic). This product or its components may have target organ effects.

**SECTION 4. FIRST AID MEASURES**

<b>General</b>	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
<b>Eye</b>	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
<b>Skin</b>	Take off all contaminated clothing immediately. Rinse immediately with plenty of water for at least 15 minutes. Call a poison control center or doctor for treatment advice.
<b>Ingestion</b>	Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.
<b>Inhalation</b>	Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
<b>Notes to Physician Signs and Symptoms</b>	Inhalation of high vapour concentrations can cause CNS-depression and narcosis. Symptoms of overexposure include headache, nausea, loss of appetite.
<b>Treatment</b>	There is no specific antidote. Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended.

**SECTION 5. FIRE FIGHTING MEASURES**

<b>Flash Point</b>	100 °C / 212 °F
<b>Suitable Extinguishing Media</b>	dry chemical, carbon dioxide (CO2), foam, water spray



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**Fire Fighting Instructions**

Keep people away from and upwind of spill/leak. Keep out of smoke. Fight fire from upwind position. In the event of fire and/or explosion do not breathe fumes. Cool closed containers exposed to fire with water spray. Dike area to prevent runoff and contamination of water sources. Equipment or materials involved in pesticide fires may become contaminated.

Wear self-contained breathing apparatus and protective suit.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

**Personal Precautions**

Isolate hazard area. Keep unauthorized people away. Avoid contact with spilled product or contaminated surfaces.

**Methods for Cleaning Up**

Take up with absorbent material (e.g. sand, diatomaceous earth or a proprietary absorbent material). Keep in suitable, closed containers for disposal. Clean contaminated floors and objects thoroughly, observing environmental regulations.

**Additional Advice**

Use personal protective equipment. Do not allow material to enter streams, sewers, or other waterways or contact vegetation.

**SECTION 7. HANDLING AND STORAGE**

**Handling Procedures**

Avoid contact with skin, eyes and clothing. Handle and open container in a manner as to prevent spillage.

**Storing Procedures**

Do not contaminate water, food, or feed by storage or disposal.

Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

**Work/Hygienic Procedures**

Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.

Take off contaminated clothing and shoes immediately. Then wash thoroughly and put on clean clothing. Launder clothing separately after use.

**Min/Max Storage Temperatures**

Do not transport or store below -12 °C / 10 °F  
Do not transport or store above 38 °C / 100 °F

**SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**General Protection**

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water. Keep and wash PPE separately from other laundry.



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Follow all label instructions. Train employees in safe use of the product.

- Engineering Controls**      Ensure adequate ventilation, especially in confined areas. Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation.
- Eye/Face Protection**      safety glasses, in case of increased risk, also a face shield or goggles
- Hand Protection**            Chemical-resistant gloves (barrier laminate, butyl rubber, nitrile rubber or Viton)
- Body Protection**             Wear long-sleeved shirt and long pants and shoes plus socks.
- Respiratory Protection**      When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or Industry recommendations.

<b>Exposure Limits</b> Naphthalene	91-20-3	ACGIH	TWA	10 ppm			
		ACGIH	STEL	15 ppm			
		NIOSH	REL	10 ppm	50 mg/m3		
		NIOSH	STEL	15 ppm	75 mg/m3		
		OSHA Z1	PEL	10 ppm	50 mg/m3		
		OSHA Z1A	TWA	10 ppm	50 mg/m3		
		OSHA Z1A	STEL	15 ppm	75 mg/m3		
		US CA OEL	TWA PEL	10 ppm	50 mg/m3		
		US CA OEL	STEL	15 ppm	75 mg/m3		
		Glycerine	56-81-5	ACGIH	TWA	10 mg/m3	
				Form of Exposure	Mist.		
				OSHA Z1	PEL		5 mg/m3
				Form of Exposure	Respirable fraction.		
				OSHA Z1	PEL		15 mg/m3
Form of Exposure	Total dust.						
OSHA Z1A	TWA				5 mg/m3		
Form of Exposure	Respirable fraction.						
OSHA Z1A	TWA				10 mg/m3		
Form of Exposure	Total dust.						
US CA OEL	TWA PEL		5 mg/m3				
Form of Exposure	Respirable fraction.						
US CA OEL	TWA PEL		10 mg/m3				
Form of Exposure	Total dust.						

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance**                  white to beige
- Physical State**                liquid



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**Density** ca. 1.033 g/cm<sup>3</sup> at 20 °C

**SECTION 10. STABILITY AND REACTIVITY**

**Chemical Stability** Stable under recommended storage conditions.

**SECTION 11. TOXICOLOGICAL INFORMATION**

Acute toxicity data for this product have been bridged from a similar formulation containing a similar percentage of the active ingredient, fenoxaprop-p-ethyl. The non-acute information pertains to technical-grade fenoxaprop-p-ethyl.

**Acute Oral Toxicity** male/female rat: LD50: > 5,000 mg/kg

**Acute Dermal Toxicity** male/female rat: LD50: > 4,000 mg/kg

**Acute Inhalation Toxicity** male/female rat: LC50: > 10.7 mg/l  
 Exposure time: 4 h  
 Determined in the form of liquid aerosol.  
 (actual)

male/female rat: LC50: > 20 mg/l  
 Exposure time: 1 h  
 Determined in the form of liquid aerosol.  
 Extrapolated from the 4 hr LC50.  
 (actual)

**Skin Irritation** rabbit: Slight irritation.

**Eye Irritation** rabbit: Moderate eye irritation.

**Sensitization** guinea pig: Non-sensitizing.

**Chronic Toxicity** Fenoxaprop-ethyl caused liver and/or adrenal effects in long-term dietary studies in rats, mice and dogs.

**Assessment Carcinogenicity**

Fenoxaprop-ethyl caused liver and adrenal gland tumors at the highest dose tested in an oncogenicity study in mice. However, there was no evidence of carcinogenicity in a combined chronic/carcinogenicity study in rats treated with fenoxaprop-ethyl.

**ACGIH**

Naphthalene 91-20-3 Group A4

**NTP**

Naphthalene 91-20-3

**IARC**

Naphthalene 91-20-3 Overall evaluation: 2B

**OSHA**



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None.

**Reproductive & Developmental Toxicity**

**REPRODUCTION:** In a two-generation reproduction study in rats, fenoxaprop-ethyl did not cause any effects on reproductive parameters. Pup body weights were decreased at maternally toxic doses.

**DEVELOPMENTAL TOXICITY:** Fenoxaprop-ethyl is not a primary developmental toxicant in rats and rabbits. Developmental effects were observed in both species but were considered secondary to maternal toxicity.

**Mutagenicity**

Fenoxaprop-p-ethyl was not mutagenic or genotoxic in a battery of in vitro and in vivo mutagenicity studies.

**SECTION 12. ECOLOGICAL INFORMATION**

**Environmental Precautions**

Toxic to fish and aquatic invertebrates. For terrestrial uses, do not apply directly to water, or to areas where surface water is present, or to intertidal areas below mean high water mark. Do not apply when weather conditions favor runoff or drift. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water.

**SECTION 13. DISPOSAL CONSIDERATIONS**

**General Disposal Guidance**

Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**Container Disposal**

Triple rinse containers. Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill or incineration, or if allowed by State and Local authorities, by burning. If burned, stay out of smoke.

**RCRA Classification:**

The RCRA Classifications may be on the individual component(s) and not necessarily on the product as a whole.

- 91-20-3      Naphthalene  
 US. EPA Resource Conservation and Recovery Act (RCRA) Composite List of Hazardous Wastes and Appendix VIII Hazardous Constituents (40 CFR 261): U165
- 91-20-3      Naphthalene  
 US. EPA Resource Conservation and Recovery Act (RCRA) U List of Hazardous Wastes (40 CFR 261.33(f) and 40 CFR 302 [CERCLA]): U165



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**SECTION 14. TRANSPORT INFORMATION**

**TRANSPORTATION CLASSIFICATION:**  
 Not regulated for shipment by any mode of transportation

**FREIGHT CLASSIFICATION:**  
 Compounds, Tree or Weedkilling, N.O.I., other than poison; Having a density of greater than 20 LBS. per cubic foot

**SECTION 15. REGULATORY INFORMATION**

**EPA Registration No.** 432-950

**US Federal Regulations**

**TSCA list**

Naphthalene 91-20-3

**US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)**

Naphthalene 91-20-3

**SARA Title III - Section 302 - Notification and Information**

None.

**SARA Title III - Section 313 - Toxic Chemical Release Reporting**

Naphthalene 91-20-3 0.1%

**US States Regulatory Reporting**

**CA Prop65**

This product contains a chemical known to the State of California to cause cancer.

Naphthalene 91-20-3

This product does not contain any substances known to the State of California to cause reproductive harm.

**US State Right-To-Know Ingredients**

Naphthalene 91-20-3 CA, CT, IL, MN, NJ, PA, RI

**Canadian Regulations**

**Canadian Domestic Substance List**

Naphthalene 91-20-3

**Environmental**

**CERCLA**

Naphthalene 91-20-3 100 lbs

**Clean Water Section 307 Priority Pollutants**

None.

**Safe Drinking Water Act Maximum Contaminant Levels**

None.

**International Regulations**

**European Inventory of Existing Commercial Substances (EINECS)**



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Fenoxaprop-P-ethyl  
Naphthalene

71283-80-2  
91-20-3

**SECTION 16. OTHER INFORMATION**

NFPA 704 (National Fire Protection Association):

Health - 1      Flammability - 1      Reactivity - 0      Others - none  
0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

Reason to Revise: Re-numbered due to system update; Sections updated as needed.

Revision Date: 01/17/2006

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